

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: December 19, 2002, 14:55:37 : Search time 12 Seconds  
(without alignments)  
793.474 Million cell updates/sec

Title: US-08-813-323B-2  
Perfect score: 3008  
Sequence: 1 MESSKMKDSCALQTNPLK.....IKDDTIFIKYIVDTSLDLP 568

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_AA:\*  
1: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*  
2: /cgn2\_6/ptodata/2/pubppaa/PCR\_NEW\_PUB pep:\*  
3: /cgn2\_6/ptodata/2/pubppaa/US06\_NEW\_PUB pep:\*  
4: /cgn2\_6/ptodata/2/pubppaa/US06\_PUBCOMB pep:\*  
5: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB pep:\*  
6: /cgn2\_6/ptodata/2/pubppaa/US07\_PUBCOMB pep:\*  
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8: /cgn2\_6/ptodata/2/pubppaa/US08\_PUBCOMB pep:\*  
9: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*  
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12: /cgn2\_6/ptodata/2/pubppaa/US10\_PUBCOMB pep:\*  
13: /cgn2\_6/ptodata/2/pubppaa/US60\_NEW\_PUB pep:\*  
14: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	3008	100.0	568	US-08-813-323A-2	Sequence 2, Appl1
2	2879.5	95.7	566	US-08-813-323A-1	Sequence 1, Appl1
3	2831.5	94.1	543	US-09-757-041-2	Sequence 2, Appl1
4	2224	73.9	438	US-09-950-902-2	Sequence 2, Appl1
5	1701.5	56.6	347	US-09-950-902-4	Sequence 4, Appl1
6	214	7.1	43	US-09-78-789-4	Sequence 4, Appl1
7	214	7.1	43	US-09-81-289-4	Sequence 4, Appl1
8	186.5	6.2	72	US-09-864-761-33993	Sequence 4, Appl1
9	153	5.1	658	US-09-764-864-818	Sequence 33993, A
10	149	5.0	185	US-09-949-842-19	Sequence 818, App
11	149	5.0	563	US-09-764-864-1277	Sequence 19, Appl
12	147	4.9	232	US-09-998-667-1	Sequence 1277, Ap
13	137	4.6	503	US-09-764-864-835	Sequence 1, Appl1
14	136	4.5	245	US-09-998-667-9	Sequence 835, App
15	136	4.5	1641	US-10-017-216-5	Sequence 9, Appl1
16	134.5	4.5	2139	US-09-727-384-6	Sequence 5, Appl1
17	133.5	4.4	239	US-09-998-667-7	Sequence 6, Appl1
18	133	4.4	285	US-09-764-864-841	Sequence 7, Appl1
19	130.5	4.3	829	US-09-946-805-8	Sequence 841, App
					Sequence 8, Appl1

20	129	4.3	1958	12	US-10-028-946-4	Sequence 4, Appl1
21	129	4.3	2054	12	US-10-028-946-2	Sequence 2, Appl1
22	127.5	4.2	1138	10	US-09-767-215-5	Sequence 5, Appl1
23	127	4.2	2033	9	US-10-017-216-2	Sequence 2, Appl1
24	127	4.2	2055	9	US-10-017-216-4	Sequence 4, Appl1
25	126.5	4.2	1863	9	US-09-734-672-2	Sequence 2, Appl1
26	126.5	4.2	1863	9	US-09-734-672-4	Sequence 4, Appl1
27	126.5	4.2	1863	9	US-09-734-672-6	Sequence 6, Appl1
28	125.5	4.2	412	10	US-09-925-300-1669	Sequence 1669, Ap
29	123.5	4.1	414	10	US-09-764-864-821	Sequence 821, App
30	123.5	4.1	626	10	US-09-801-574-10	Sequence 10, Appl
31	123.5	4.1	677	10	US-09-745-763-168	Sequence 168, App
32	122.5	4.1	340	10	US-09-250-883-17	Sequence 17, Appl
33	122.5	4.1	1551	10	US-09-864-761-35904	Sequence 35904, A
34	121	4.0	228	10	US-09-998-667-8	Sequence 8, Appl1
35	121	4.0	231	10	US-09-925-301-1306	Sequence 1306, Ap
36	121	4.0	231	10	US-09-764-864-837	Sequence 837, App
37	121	4.0	231	10	US-09-764-864-1292	Sequence 1292, Ap
38	121	4.0	285	10	US-09-764-864-1296	Sequence 1296, Ap
39	121	4.0	3084	10	US-09-938-275-4	Sequence 4, Appl1
40	120.5	4.0	600	10	US-09-975-901-2	Sequence 2, Appl1
41	120.5	4.0	689	9	US-10-108-605-305	Sequence 305, App
42	120	4.0	457	10	US-09-764-864-1045	Sequence 1045, Ap
43	120	4.0	1175	10	US-09-771-161A-224	Sequence 224, App
44	120	4.0	1175	10	US-09-771-161A-225	Sequence 225, App
45	120	4.0	1175	10	US-09-771-161A-226	Sequence 226, App

## ALIGNMENTS

RESULT 1  
US-08-813-323A-2  
Sequence 2, Application US/08813323A  
Patent No. US20020031522A1  
GENERAL INFORMATION:  
APPLICANT: Baltimore, David  
APPLICANT: Cheng, Genhong  
APPLICANT: Cleary, Aileen  
APPLICANT: Lederman, Seth  
APPLICANT: Ye, Zheng-sheng  
TITLE OF INVENTION: TRUNCATED CRAPI INHIBITS CD40 SIGNALING  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham, LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/813,323A  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 50659  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 568 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide

FEATURE:  
NAME/KEY: Peptide  
LOCATION: 1..568  
US-08-813-323A-2

Query Match 100.0%; Score 3008; DB 8; Length 568;  
Best Local Similarity 100.0%; Pred. No. 2,9e-210;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESSKMDSPGALQTNPLKLTHTDRSAGTPVFPVPEOGGYKKEKVKYEDKCKCHLYL 60  
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DB 61 CSPKQTEGHRFCESCMALSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
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DB 121 SRGCAEQTLGLHLVHLKNDCHFEELPCVPDPCKEYLRKDLRDHYEAKCYREATCSHC 180  
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DB 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECVNAPSTCSFKRYGCV 240  
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DB 301 EIEROKEMLRNNEKILHLQRYVDSQAEKLELDKEIRPFQNMWEADSMKSSVESLQNR 360  
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DB 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDNSSSFKKPTGEMNIAISGCPVFAQ 540  
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DB 541 TVLENGTYIKDDTIFIKIVYVTSDDLDP 568

## RESULT 2

US-08-813-323A-1  
Sequence 1, Application US/08813323A  
Patent No. US20020031522A1  
GENERAL INFORMATION:  
APPLICANT: Baltimore, David  
APPLICANT: Cheny, Genhong  
APPLICANT: Cleary, Aileen  
APPLICANT: Lederman, Seth  
TITLE OF INVENTION: TRUNCATED CRAFT INHIBITS CD40 SIGNALING  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham, LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/813,323A  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 50659  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
FAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 566 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 1..566  
US-08-813-323A-1

Query Match 95.7%; Score 2879.5; DB 8; Length 566;  
Best Local Similarity 96.1%; Pred. No. 5.7e-201;  
Matches 545; Conservative 7; Mismatches 14; Indels 1; Gaps 1;

QY 1 MESSKMDSPGALQTNPLKLTHTDRSAGTPVFPVPEOGGYKKEKVKYEDKCKCHLYL 60  
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DB 61 CSPKQTEGHRFCESCMALSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
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DB 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECVNAPSTCSFKRYGCV 240  
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DB 241 FQGTNOQIKAHASAVOHVNLKEMNSLEKRVSLQNESVEKNKSISQSLHNOICSFEL 300  
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DB 301 EIEROKEMLRNNEKILHLQRYVDSQAEKLELDKEIRPFQNMWEADSMKSSVESLQNR 360  
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DB 361 VTELESVDKSAQVARTGLESQSLSRHDOMLSVHDIRLADMDLRFQVLETASVNGVLIW 420  
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DB 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
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DB 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDNSSSFKKPTGEMNIAISGCPVFAQ 540  
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## RESULT 3

US-09-757-041-2  
Sequence 2, Application US/09757041  
Patent No. US20020009726A1

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: GENERAL INFORMATION:
: APPLICANT: Reed, John C.
: TITLE OF INVENTION: CD40 Associated Proteins
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Campbell and Flores
: STREET: 4370 La Jolla Village Drive, Suite 700
: CITY: San Diego
: STATE: California
: COUNTRY: USA
: ZIP: 92122
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: IBM PC compatible
: SOFTWARE: Patentln Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/757,041
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/349,357
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Campbell, Cathryn A.
: REGISTRATION NUMBER: 31,815
: REFERENCE/DOCKET NUMBER: P-LJ 1203
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (619) 535-9001
: TELEFAX: (619) 535-8949
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 543 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-09-757-041-2

Query Match          94.1%; Score 2831.5; DB 10; Length 543;
Best Local Similarity 95.2%; Pred. No. 1.6e-197;
Matches 541; Conservative 0; Mismatches 2; Indels 25; Gaps 1;

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 DB 121 SRGCAQLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
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 DB 181 KSOVPMTALQKHEDTDCPCVAVSCPHKCSVQTLRLSELSAHLSGVNAPSTCSFRYGCY 240  
 QY 181 KSOVPMTALQKHEDTDCPCVAVSCPHKCSVQTLRLSELSAHLSGVNAPSTCSFRYGCY 240  
 DB 181 KSOVPMTALQKHEDTDCPCVAVSCPHKCSVQTLRLSELSAHLSGVNAPSTCSFRYGCY 240  
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 DB 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVSLLQNESVEKNKSISQSLHNOICSEFI 300  
 QY 218 --GNGOQIKAEHASSAVOHVNLKEMSNLEKVSLLQNESVEKNKSISQSLHNOICSEFI 275  
 DB 218 --GNGOQIKAEHASSAVOHVNLKEMSNLEKVSLLQNESVEKNKSISQSLHNOICSEFI 275  
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 DB 301 EIERQKEMLRNNEKILHLQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 QY 276 EIERQKEMLRNNEKILHLQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 335  
 DB 276 EIERQKEMLRNNEKILHLQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 335  
 QY 361 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 420  
 DB 361 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 420  
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 DB 336 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 395  
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 DB 421 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 480

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DB 396 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 455
QY 481 EYDALLPMPFKOKVTLMLMDGSSRRHIGDAFKPDNPSSFFKPGEMNIASGCPVFAO 540
DB 456 EYDALLPMPFKOKVTLMLMDGSSRRHIGDAFKPDNPSSFFKPGEMNIASGCPVFAO 515
QY 541 TVLENGTYIKDDTIFIKVIVTSDLPDP 568
DB 516 TVLENGTYIKDDTIFIKVIVTSDLPDP 543

RESULT 4
US-09-950-902-2
: Sequence 2, Application US/09950902
: Patent No. US20020127615A1
: GENERAL INFORMATION:
: APPLICANT: The Trustees of Columbia University in the City of
: TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF
: FILE REFERENCE: 58732-A-PCT
: CURRENT APPLICATION NUMBER: US/09/950,902
: CURRENT FILING DATE: 2001-09-10
: PRIOR APPLICATION NUMBER: PCT/US00/06503
: PRIOR FILING DATE: 2000-03-10
: PRIOR APPLICATION NUMBER: 09/268,544
: PRIOR FILING DATE: 1999-03-11
: NUMBER OF SEQ ID NOS: 14
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 2
: LENGTH: 438
: TYPE: PRT
: ORGANISM: Isolated TRAF-3 deletion isoform protein
: US-09-950-902-2

Query Match          73.9%; Score 2224; DB 10; Length 438;
Best Local Similarity 76.8%; Pred. No. 1.1e-153;
Matches 437; Conservative 0; Mismatches 0; Indels 132; Gaps 3;

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 DB 1 MESSKKMDSFGALQTNPLKLTDRSAGTPVFPVPEGGKKEKFKVTVEDKYKCEKCHLV 60  
 QY 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESIVKDKYFKDNCKRREILALQIYCRNE 120  
 DB 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESIVKDKYFKDNCKRREILALQIYCRNE 120  
 QY 121 SRGCAQLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 DB 121 SRGCAQLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 QY 181 KSOVPMTALQKHEDTDCPCVAVSCPHKCSVQTLRLSELSAHLSGVNAPSTCSFRYGCY 240  
 DB 181 KSOVPMTALQKHEDTDCPCVAVSCPHKCSVQTLRLSELSAHLSGVNAPSTCSFRYGCY 240  
 QY 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVSLLQNESVEKNKSISQSLHNOICSEFI 300  
 DB 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVSLLQNESVEKNKSISQSLHNOICSEFI 300  
 QY 301 EIERQKEMLRNNEKILHLQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 DB 301 EIERQKEMLRNNEKILHLQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
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 DB 189 -----LQRYIDSQAELKELDKETIRPFQNMWEADSMKSSVESLQNR 230  
 QY 361 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 420  
 DB 361 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 420  
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 DB 231 VTELESVDKSAGOVARTGLESQSLSRHDOMLSVHDIRLADMDLRFVLETASYNGVLIW 290  
 QY 421 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 479  
 DB 421 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 479  
 QY 291 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 349  
 DB 291 KIRDYRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLANGDMGKTHLSLFFVIMRG 349  
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 QY 350 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAFKPDNPSSFFKPGEMNIASGCPVFAO 409  
 DB 350 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAFKPDNPSSFFKPGEMNIASGCPVFAO 409

QY	540 QTVLENGTYIKDDTIFIKIVIVDTSDDLPP	568
Db	410 QTVLENGTYIKDDTIFIKIVIVDTSDDLPP	438

RESULT 5  
 US-09-950-902-4  
 ; Sequence 4, Application US/09950902  
 ; Patent No. US20020127615A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: The Trustees of Columbia University in the City of  
 ; TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF  
 ; FILE REFERENCE: 58732-A-PCT  
 ; CURRENT APPLICATION NUMBER: US/09/950,902  
 ; CURRENT FILING DATE: 2001-09-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/06503  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 09/268,544  
 ; PRIOR FILING DATE: 1999-03-11  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 347  
 ;  
 ; TYPE: PRT  
 ; ORGANISM: isolated TRAF-3 deletion isoform protein  
 ; US-09-950-902-4

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US-09-798-789-4
, Sequence 4, Application US/09798789
, Patent No. US20020009780A1
, GENERAL INFORMATION:
, APPLICANT: Bahiyat, Bassil
, APPLICANT: Filikov, Anton
, TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
, TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
, TITLE OF INVENTION: DISORDERS
, FILE REFERENCE: A-68990-1/RET/5MS/RMK
, CURRENT APPLICATION NUMBER: US/09/798,789
, CURRENT FILING DATE: 2001-03-02
, PRIOR APPLICATION NUMBER: US 60/186,427
, PRIOR FILING DATE: 2000-03-02
, NUMBER OF SEQ ID NOS: 22
, SOFTWARE: PatentIn Ver. 2.1
, SEQ ID NO 4
, LENGTH: 43
, TYPE: prt
, ORGANISM: Homo sapiens
, US-09-798-789-4

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Qy 141 CHFEELPCVRDCKEYLRKDLRDHVEKACKYRATSCSHCKSOVPMALOKHEDTDCPCV 200  
 Db 103 -----CDTLCVLSMRAHIRTCKYID-----KXPLDELEETARCV 140  
 Qy 201 VVSCPHKCSVOTILRSELSEHLSCVAPNSPCSKFR 236  
 Db 141 CFCORELYEDSLDHCITTHRRSE--RRPVFCPLCR 174

## RESULT 13

US-09-764-864-835  
 ; Sequence 835, Application US/09764864  
 ; Patent No. US20020132753A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PRT23  
 ; CURRENT APPLICATION NUMBER: US/09/764,864  
 ; PRIORITY FILING DATE: 2001-01-17  
 ; PRIOR APPLICATION DATA REMOVED - consult PAM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 1792  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 835  
 ; LENGTH: 503  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-764-864-835

Query Match 4.6%; Score 137; DB 10; Length 503;  
 Best Local Similarity 20.4%; Pred. No. 0.013;  
 Matches 95; Conservative 63; Mismatches 156; Indels 152; Gaps 24;

Qy 44 VKTVEKKKCKC-----HLVLCSPKQTECHRFCECSCMAALLSSSPKCTAC----- 91  
 Db 24 MKTIDDLRCICTEFYRIAMITP---QCSHNYCSLIRKLSIKTKGCPICCVITPEDL 80  
 Qy 92 -----QESIVKDVFKDN-----CCREIILALQICRNESGCAEQ--LT 129  
 Db 81 KNNRIDELTVKSLNFRNHLLOFALESPASPASSSSKNLAVKYTTPVASHOSLQGSRL 140  
 Qy 130 LGHLLVHAKNCHFEELPCVRDCKEYLRKDLRDHVEKACKYRATC-----SHCK 181  
 Db 141 MNLFLIREMSGTSELL-----IKENKSKFSPQKSPAKKTETRSVEBIADPSEAK 194  
 Qy 182 SQVP--MIALOKHEDTDCPCVAVVSCPHKCSVOTILRSELSEHLSECVN----- 227  
 Db 195 RPEPSTSTLKQVTKVDCPCVGNIP-----ESHINKHDLSCLSREKKESSLSSV 245  
 Qy 228 -----APSTC-----SFRKRCVCEGTNOQ--IKAHE-----A 253  
 Db 246 HKRRLPRTVYNLSDRLKKLKEHGLSIGNKQOLIKRHQEFVHMYNAQCDALHPKSA 305  
 Qy 254 SSAVOHVALLKEMSNLEKKNVSLQNESV-----EKNKSQSLHNDI--CSFELEIROK 306  
 Db 306 AEIYOELINIKTKMRLE--ASKI--NESVWFTYKQTEKEIDETHSKYRKKNKSEFQLV 362  
 Qy 307 EMLRNESKILHL--QRYI-----DSQAEKL-----KELD--KEIR 338  
 Db 363 DQARKGYKKIKGMSQKVTYTIKKEDESTEKLSVCMGOEDNMTSVTNHFSQSKLSDPELE 422  
 Qy 339 PFRONWEADSMKSSVESLQNRVTELESVDKSAQOVARNLTGLESQ 384  
 Db 423 PDRE--EDSSCIDIOEVLSS--SESDSCNSSSDIIRD--LLEE 462

## RESULT 14

US-09-998-667-9  
 ; Sequence 9, Application US/09998667  
 ; Patent No. US20020146747A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Masuda, Eateban  
 ; APPLICANT: Liao, X. Charlene  
 ; APPLICANT: Zhao, Haozan

; APPLICANT: Chu, Peter  
 ; APPLICANT: Pardo, Jorge  
 ; APPLICANT: Rigel Pharmaceuticals, Incorporated  
 ; TITLE OF INVENTION: TRAC1: Modulators of Lymphocyte Activation  
 ; FILE REFERENCE: 021044-000600US  
 ; CURRENT APPLICATION NUMBER: US/09/998,667  
 ; PRIORITY FILING DATE: 2001-12-03  
 ; PRIOR APPLICATION NUMBER: US 60/282,432  
 ; PRIOR FILING DATE: 2001-04-06  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: Patentln Ver. 2.1  
 ; SEQ ID NO 9  
 ; LENGTH: 245  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; OTHER INFORMATION: STRIN sequence with r1gn domain  
 ; US-09-998-667-9

Query Match 4.5%; Score 136; DB 10; Length 245;  
 Best Local Similarity 21.6%; Pred. No. 0.0061;  
 Matches 58; Conservative 45; Mismatches 116; Indels 50; Gaps 13;

Qy 48 EDKVKCEKCHLVLCSP--KQTECHRFCECSCMAALLSSSPKCTACQESTIVKDKVFRDNCC 106  
 Db 13 EDDFYCPVCEVLKTEPRTACQHVFCRKCFLTAMREGAHCPICRGVTR----REAC 68  
 Qy 107 KREILALQICRNES--RGCAEQLLGHLLVHAKNCHFEEL--LPCVRPCKEYLRK 160  
 Db 69 PERALDENIMRFESSGCCCAQIKFYRRNHHYKCKRYQEGVSSIVPNEQIS---- 124  
 Qy 161 DLRDHVEKACKYRATSCSHCKSOVPMALOKHEDTDCPCVAVVSCPHKCSVOTILRSEL-- 218  
 Db 125 --QDSVGNRSRSTSTSDNTERTYQENTSSGHTFECPL-----QCESFTQRLLD 174  
 Qy 219 ---SAHLSVCNAPSTCSFRKRCVF--OGTNOQIKAHBASSAVOHVNLKEMSNLEKK 273  
 Db 175 HCSNHLFOIV--PVTCPI---CVSLPWGDSQI-----TRNFVSHLNRQDFDYG--EF 222  
 Qy 274 VSLQNESVEKKNKSQSLHNOICSEFIEI 302  
 Db 223 VNLQDEETQYQTAEE-----SFQVNI 245

## RESULT 15

US-10-017-216-5  
 ; Sequence 5, Application US/10017216  
 ; Patent No. US20020160483A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KAPILLER-LIBERMAN, Rosana  
 ; TITLE OF INVENTION: 13245, A No. US20020160483A1el Human Myotonic Dysatropy Type P  
 ; FILE REFERENCE: 10147-5701  
 ; CURRENT APPLICATION NUMBER: US/10/017,216  
 ; PRIORITY FILING DATE: 2001-10-23  
 ; PRIOR APPLICATION NUMBER: US 60/242,429  
 ; PRIOR FILING DATE: 2000-10-23  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: Patentln Ver. 2.1  
 ; SEQ ID NO 5  
 ; LENGTH: 1641  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-10-017-216-5

Query Match 4.5%; Score 136; DB 9; Length 1641;  
 Best Local Similarity 21.5%; Pred. No. 0.067;  
 Matches 97; Conservative 75; Mismatches 165; Indels 114; Gaps 22;

Qy 40 KEKFKTVEDKVKCEKCHLVLCSPKQTECHRFCECSCMAALLSSSP--KQACQESTIVK 97  
 Db 76 KKLILSKELQSDQCKHM--EQEMTRLHRRVSE--VEAVLSQKEVELKASGTORSLLE 131

QY 98 DKVFNCKCKRELLALQIYCRNESCACAEOLTLGHLVHLKNDCHFEELPCVPRPCKEKV 157  
Db 132 -----ODLAIYI-----TECSS-----LKRSLEQARMEVQSEDDKALQ 164  
QY 158 LKRDLDHVEKACKYREATCSHCKSOVPMIALQKHEDTDCPCVVVSCPHKCSV--QTLIR 215  
Db 165 LTHDIREQSRKLOETKEQEYQAQVEEMRIMNQLEED-----LVSARRRSDLYESELERE 218  
QY 216 SELSAHLSRCVNA PSTCSFKRYGCVFQGTNO--QIKAHESASAYQHVNLKEMSLSLEKK 273  
Db 219 SRLAA--EEFKRKANECQHKLKAKADQGPVEGEYSKLEKINABOOLK-TQELQEKLEKA 275  
QY 274 V-----SLQNESVEKNKS--IOSLHNQICSPF-----IETEROEMLRNNESKI- 316  
Db 276 VASTATEFELLONIRQAKERAERELEKLNREDSSEGIKKLYEAELEEE--KHREAOYS 333  
QY 317 -----LHLORVIDSQAELKELDKEIRP-----FRONWEEA----- 347  
Db 334 AQHLEVHLKQEQHYEKEIKVLDNQIKKDLADKESLENNMORHEEAEHEKGI LSEOKAM 393  
QY 348 -DSMKSSVESLQNRVTELESVDKSAGQVARNITGL-ESQLSRHDOMLSYHDIRLADMDLR 405  
Db 394 INAMD SKIRSLERQIVELSEANK---LAANSLSFTQNNKAQOEMTS-----ELR 440  
QY 406 FOVLETASYNGVLIMKIRDYKRRKCEAVMGK 436  
Db 441 QOKFYLETQAGKL-----EAQNRKLEEQLEK 466

Search completed: December 19, 2002, 14:59:39  
Job time : 15 secs